

**From:** [Michael PINTO](#)  
**To:** [Bury, Carolyn](#)  
**Subject:** FW: Area 17 Monitoring ~COR-018224~  
**Date:** Wednesday, December 11, 2013 11:45:30 AM

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Carolyn,

I am available to talk tomorrow morning at 10:00 eastern if that works for you. I forwarded your email to Pete Swanson from CRA and asked if he could participate in the call. He is not available but offered the information below in response to your concerns. Let me know if 10 works or suggest another time in the morning. I am not available this afternoon or tomorrow afternoon.

Michael Pinto  
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Regarding the well cluster in the NW corner - no need to sample intermediate (mw109) or deep (mw209) wells considering that the system is preventing migration of shallow groundwater. Significant clay layer prevents vertical migration. With respect to MW009 - it has known DNAPL. We will be performing hydraulic monitoring on that well, which may show decreasing DNAPL thickness (to show effectiveness), but as long as NAPL is in the well, we will not see "decreasing concentrations".

For reference, here is the monitoring plan:

<b>Sampling Event</b>	<b>Hydraulic Monitoring/DNAPL Gauging Network</b>	<b>Sampling Network</b>	<b>Analyses</b>	<b>Report Delivery to U.S. EPA</b>
January 2014	IRM-MW-1 IRM-MW-2 IRM-MW-3 MW009 MW010A MW011 MW016 MW025	IRM-MW-1 IRM-MW-2 IRM-MW-3 MW010A MW016 MW025	TCL VOCs TCL SVOCs Chromium (Total and Dissolved) Lead (Total and Dissolved) QA/QC – 1 Trip, 1 Dup, 1 MS/MSD	March 2014
April 2014	IRM-MW-1 IRM-MW-2 IRM-MW-3 MW009 MW010A MW011 MW016 MW025	IRM-MW-1 IRM-MW-2 IRM-MW-3 MW010A MW016 MW025	TCL VOCs TCL SVOCs Chromium (Total and Dissolved) Lead (Total and Dissolved) QA/QC – 1 Trip, 1 Dup, 1 MS/MSD	June 2014
July 2014	IRM-MW-1 IRM-MW-2	IRM-MW-1 IRM-MW-2	TCL VOCs TCL SVOCs	September 2014

	IRM-MW-3 MW009 MW010A MW011 MW016 MW025	IRM-MW-3 MW010A MW016 MW025	Chromium (Total and Dissolved) Lead (Total and Dissolved) QA/QC – 1 Trip, 1 Dup, 1 MS/MSD	
October 2014	IRM-MW-1 IRM-MW-2 IRM-MW-3 MW009 MW010A MW011 MW016 MW025	IRM-MW-1 IRM-MW-2 IRM-MW-3 MW010A MW016 MW025	TCL VOCs TCL SVOCs Chromium (Total and Dissolved) Lead (Total and Dissolved) QA/QC – 1 Trip, 1 Dup, 1 MS/MSD	December 2014

Here are details on wells in the network:

Well ID	TOC Elev.	Water Level (ft btoc)	Depth to DNAPL (ft btoc)	TOS	BOS	Screened Interval
IRM-MW-1	580.02	7.03	ND	17.25	22.25	silty sand, keyed into clay
IRM-MW-2	579.57	7.88	20.2	16.5	21.5	Fill, keyed into clay
IRM-MW-3	579.30	7.90	ND	16.5	21.5	Fill, keyed into clay
MW009	579.57	6.77	13.83	11.5	16.5	silty sand
MW010a	579.76	6.39	ND	6.5	11.5	silty sand
MW011	580.66	6.86	ND	5	10	silty sand
MW016	579.29	6.56	ND	10	19.5	silty sand
MW017	Well damaged					
MW022	Well damaged					
MW025	581.11	9.96	ND	16.8	21.8	Fill, keyed into clay
MW109	578.56	10.18	ND	28.5	38.5	Clayey silt
MW209	579.73	16.43	ND	50.5	60.5	Limestone

-----Original Message-----

From: Michael PINTO [mailto:michael.pinto@total.com]

Sent: Wednesday, December 11, 2013 10:56 AM

To: Swanson, Peter

Subject: FW: Area 17 Monitoring

Pete,

See Carolyn's message below. I would like to have you on this call since I am not familiar enough with the wells, screened intervals, depth of NAPL, etc to talk intelligently. Are you available tomorrow at 10:00 eastern?

Michael Pinto

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-----Original Message-----

From: Bury, Carolyn [<mailto:bury.carolyn@epa.gov>]

Sent: Wednesday, December 11, 2013 10:43 AM

To: Michael PINTO

Subject: RE: Area 17 Monitoring

Thanks Mike. I'd like to talk over the proposed wells, get some more information on the aquifer, depth of napl, where the wells are screened, etc. Also, discuss the rationale for not sampling the wells in the NW corner of site. It would seem that decreasing concentrations in those wells might provide info on remedy effectiveness. Would you be available tomorrow morning or later today for a call?

Carolyn,

The 6 wells we propose to sample are indicated in red on the attached figure. They may need to be redeveloped before sampling. Let me know if these look okay and we will schedule the work for January. I will get you the work plan as soon as possible. Unfortunately I have to allow time for Union Carbide and Beazer to provide comments, so we not be able to get it to you until after the holidays. From our last discussion it was my understanding that you are okay with this as long as we can still sample in January.

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